COUTEUTS

SYMPOSIUM A — CAPITAL COST CONTROL

- A-1 Cash Flow and the Construction Client John G. Lowe and Helen C. Lowe
- A-2 Controlling Project Costs Through Trending Daniel Becker, CCE
- A-3 Modular Design and Construction James A. Bent, CCE
- A-4 Capital Cost Control: The Owner's Perspective Marc T. Richardson, PE CCE
- A-5 Cost Control and Project Accounting Are Getting Married Serge Pressoir, P Eng.
- A-6 Value Engineering: A No Risk Investment David H. Coffield, PE, Robert H. Herr, and Yvette Streahle
- A-7 Control of Petrochemical Civil Engineering Custs C. Hardcastle, H. W. Brown, and A. J. Davies
- A-8 Cost Flow System for Cost Management Tsutomu Harashima, CCE

SYMPOSIUM B - CAPITAL COST ESTIMATING

- B-1 Patterns in Cost Indices John Brass and A. M. Gerrard
- B-2 Economic Potentials of Seawater Desalination by Reverse Osmosis M. M. Abdelhalim, CCE and Dr. M. M. Abdel Jawad
- B-3 Factors Affecting Accuracy of Engineers' Estimates Martin Skitmore and Siew Hui Tan
- B-4 How Accurate are Capital Cost Estimates G. Stevens and T. Davis
- **B-5** Approaches in Construction Project Cost Risk Karlos A. Artto
- B-6 The Integrated Cost Estimating Systems Technique for Building Cost Kurazo Yokoyama and Takeshi Tomiya
- B-7 Cost Modeling Techniques in Perspective Sidney Newton
- B-8 Cost Estimating At Corpoven Atilio E. Gonzalez, Carmen Smith, and Beatriz Rincon

SYMPOSIUM C — CONSTRUCTION COST MANAGEMENT

- C-1 High-Tech Low-Cost Tunneling "The Oslo Method" To Solve the Traffic Problems of the Future
 Kiell Ottar Berge and Eilif Holen
- C-2 Overseas Construction Projects: Critical Casting Considerations Kweku K. Bentil
- C-3 Construction Project Budyeting and Forecasting Farzad Khosrowshahi
- C-4 Cost Assesment of Emerging Construction Technologies Thomas R. Napier and Luh-Maan Chang
- C-5 A Survey of Cost Reduction Techniques Used by Construction Firms in Saudi Arabia Abdulmohsen Al-Hammad and Sadi Assaf
- C-7 Documentation and Verification in the Change Order Alfred L. Dellon, CCE and Irene J. Dellon

SYMPOSIUM D - MANAGEMENT SYSTEMS

- D-1 Bid Appraisal Incorporating Quantified Past Performances by Contractors George S. Birrell
 D-2 Integrated Project Management Information Systems: The French Nuclear Industry Experience Jean-Claude Jacquin and Gilles-Marie Caupin
- D-3 Transmission and Distribution Projects Control System Albert Barsody and Paul Nochaharli
- D-4 Expert Systems for Financial Planning Peter S. Brandon
- **D-5** One Owner's Recent Contracting Experiences Edward F. Reese, Jr.
- D-6 Getting "Integrated Project Control" to Work Frank G. Blok and Johan A. Schuil
- D-7 Cost and Schedule Specialist Toolkit C. James Linck and David E. Perelli
- D-8 Management Systems, A Current Update Frederick Wm. Mueller
- D-9 Etiography: A New Discipline Charles A. Villemain, J. P. Woityna and Michael Lasserre du Rozel
- D-10 Construction Productivity: Major Causes of Impact Charles A. Leonard, Paul Fazio, and Osama Moselhi
- D-11 Cost/Schedule Control System Criteria: A Lighthearted Introduction for the Nonbeliever Lee R. Lambert

SYMPOSIUM E - PLANNING AND SCHEDULING

- **E-1** Scheduling Technique to Control Several Minor Modification Projects Mark A. Andrews, CCE, Kenneth L. Mortensen, PE, and Edward J. Kaufmann, PE.
- E-2 Preliminary Cost Estimate: Guidelines for Elaboration Sergio L. Conforto
- E-3 Renovation Restoration Scheduling—Library of Congress Robert P. Jensen
- E-4 Achieving Construction Project Objectives in Various Situations Dora Cohenca-Zall and Alexander
- E-5 Salt Repository Project Schedule Integration H. Dennis Kopp and L. J. LaFountain

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- G-1 Reaching Profit Goals in Small Construction Contracts Christopher G. Walker, P Eng, CCE and Chris Quaife
- G-2 Managing Transmission Line Construction Using Computers Robert A. Kenney, PE CCE
- G-4 The Use of CPM Through Knowledge-Based Information Systems Maris G. Lenss
- G-5 Capital Plant Factorial Estimating System (FACTEST) Mike G. Leese
- G-6 New Development in Capital Cost Estimating Roger Stutz and Marc Alan Zocher
- G-7 A System for Monitoring Cost and Schedule Performance of Professional Design Services Luis F. Suarez, CCE and Howard A. Green
- G-8 Costaz Project Management System Rodolfo E. Romblon and Cesar L. Del Rosario
- G-9 Expert System Building Tools: A Selection Criteria Osama Moselhi and M. J. Nicholas
- G-10 Micro to Mainframe Multiproject Scheduling Charles P. Woodward, PE CCE and Linda M. Ramme
- G-11 Parametric Software Cost Estimation with an Adaptable Model Robert E. Park
- G-12 Statoil's Refinery is Remeasured by Computers J. Van Diggelen and B. P. Frost

SYMPOSIUM H - PRODUCTIVITY

- H-1 Activity Survey Impact on Construction Productivity Stephen G. Goranson
- H-2 Analytical Techniques to Improve Construction Productivity Luh-Maan Chang
- H-3 Impact of Overtime on Construction Irwin Bromberg, PE
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- I-1 The Future of Women in Construction Lenore Janis
- 1-2 Leadership and Influence: The Challenge of Project Management Deborah S. Kezsbom

SYMPOSIUM J - LIFE CYCLE COSTS

- J-1 Cost-Performance Analysis for Building Envelopes Ramy El Diasty
- J-2 Estimating Capital Cost Dynamics of New Technologies Giorgio Gottardi and Luigi Copolla
- J-3 Economic Risk of Offshore Field Development Rolf Skjong and Jon Lereim
- J-4 Cost Management Models for Design Application Garvin T. Dreger

SYMPOSIUM K — UTILITY COST MANAGEMENT

- K-1 Managing (Controlling) Small Utility Projects Govind R. Boloor, PE and J. Larry Basham
- K-2 "Here Come the Auditors" Deborah Flannagan
- K-3 Cost Management and the Pursuit of Excellence Richard A. Mazzini, PE CCE
- K-4 Starting a Project Management Organization A Utility Perspective Peter F. Santoro and Leo J. Nadeau
- K-5 Expert Systems A Real Tool for Planning J. Larry Basham, C. K. Skweres, and J. S. Hamilton

SYMPOSIUM L — INFLATION AND ECONOMIC CHANGE

- L-1 The Effect of Economic Changes on Construction Cost Sadi Assaf and Abdulmohsen Al-Hammad
- L-2 Optimization of Hourly Cost of Plant (In Times of Crisis) Jose P. Bendicho-Joven

SYMPOSIUM M — ENGINEERING ECONOMICS

- M-1 The Dynamics of the World Debt Crisis Jean-Claude Huot, P Eng
- M-2 Coal Supply Risk Evaluation for Site Selection Endre Mozes, CCE
- M-3 Engineering Maintenance Control Using A PC A. D. Milne
- M-4 Pooled Inventory Management A Real World Update Larry S. Pitts, CCE

SYMPOSIUM N — PROFITABILITY

- N-1 Justification of High-Tech Manufacturing Equipment Julian A. Piekarski, PE CCE
- N-2 Is Your Rate of Return Too Low? Henry C. Thorne, CCE
- N-3 Range Estimating: Reasoning with Risk Michael W. Curran

SYMPOSIUM 0 - EDUCATION

- 0-1 Dutch Cost Engineering Certificates and International Recognition Aspects J. C. van Haarlem and A. G. Montfoort
- 0-2 Graduate Cost Engineering Education at NJIT: A Review of 10 Years' Experience Carl Wolf, CCE
- 0-3 "Bottom Line" Project Management David H. Hamburger
- 0-4 Project Management Awareness in India Dick Sharad

SYMPOSIUM P - PROJECT MANAGEMENT

- P-1 Towards Excellence in Project Management Per Willy Hetland
- P-2 Counter-Productivity: Its Causes and Cures Richard E. Westney, PE
- P-3 Construction Control The Client's Prerogative J. M. Bredenkamp and A. D. Milne
- P-4 The Value of Third Party Reviews Robert E. Dellon
- P-5 A Project Control to Meet Project Change Mark W. Beyer, PE
- P-6 Management Change in the Project Environment M. Dean Martin and Stephen D. Owens
- P-7 Quantity Control During Project Development J. F. Remy and Gerard Beguinot, CCE
 - P-8 The Cost Engineer and Claims Prevention H. D. Casner, Jr., PE
- P-9 Deep Level Mining Cost Management Techniques R. W. Lane
- P-10 Construction Safety Management: A Canadian Study Henri-Paul Martel and Osama Moselhi

SYMPOSIUM R — MANUFACTURING COSTS

- R-1 S.P.C. Approach to Cost Reducation (Robin) W.S. Tham
- R-2 Optimize Equipment Replacement Costs Akhilesh Kumar
- R-3 Corporate Cost Control Mobolaji T. Macaulay

SYMPOSIUM S — ENVIRONMENTAL COSTS

- S-1 Owner Control of Environmental Projects Charles G. Poulton, PE CCE and Michael J. Shannon
- S-2 Estimating Costs of Asbestos Abatement Thomas C. Ponder, Jr., PE
- S-3 Unit Process Cost Allocation for Rate Studies Kees W. Corssmit

SYMPOSIUM T — POWER PLANT CAPITAL COSTS

- T-1 Analysis of Nuclear Power Construction Costs Glen L. Jansma and John D. Borcherding
- T-2 Determining the Accuracy of a Cost Estimate Newton F. True, CCE
- T-3 Joint Participation in Large Power Projects James J. Stevenson, Jr., CCE and Philip Saunders
- T-4 Economics of Coal Fired Slab Preheaters with Limestone Injection S. Burhanuddin and Robert C. Creese

SYMPOSIUM U — SCHEDULE PRINCIPLES

- U-1 CS2 In High-Tech Program Management Nghi M. Nguyen, PE
- U-2 Proof of Damages in Construction Claims Richard J. Long

SYMPOSIUM V — CHEMICAL PROCESS INDUSTRY COSTS

- V-1 From Cost Data to Cost Correlations M. S. A. Vrijland and H. J. Fontein
- V-2 Estimation of Process Plant Insulation Joseph F. Galluzzo
- V-3 Estimating Factors for Process Plants John R. Heizelman

SYMPOSIUM Z — COMMITTEE WORKSHOPS

Z-1 General Workshop: Writing and Presenting a Technical Paper — James J. Stevenson, Jr., CCE and Janet Stevenson